TELEDYNE PARADISE DATACOM
A Teledyne Technologies Company

Q-NET™ Navigator
Installation and Operating Handbook

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Teledyne Paradise Datacom Ltd.
2&3 The Matchyns, Rivenhall End,
Witham, Essex, CM8 3HA, England.
Tel: +44(0)1376 515636

Teledyne Paradise Datacom LLC
328 Innovation Blvd.
State College, PA 16803, U.S.A.
Tel: +1 814 238 3450

http://www.paradisedata.com

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Chapter 1 Welcome

1.1 Introduction

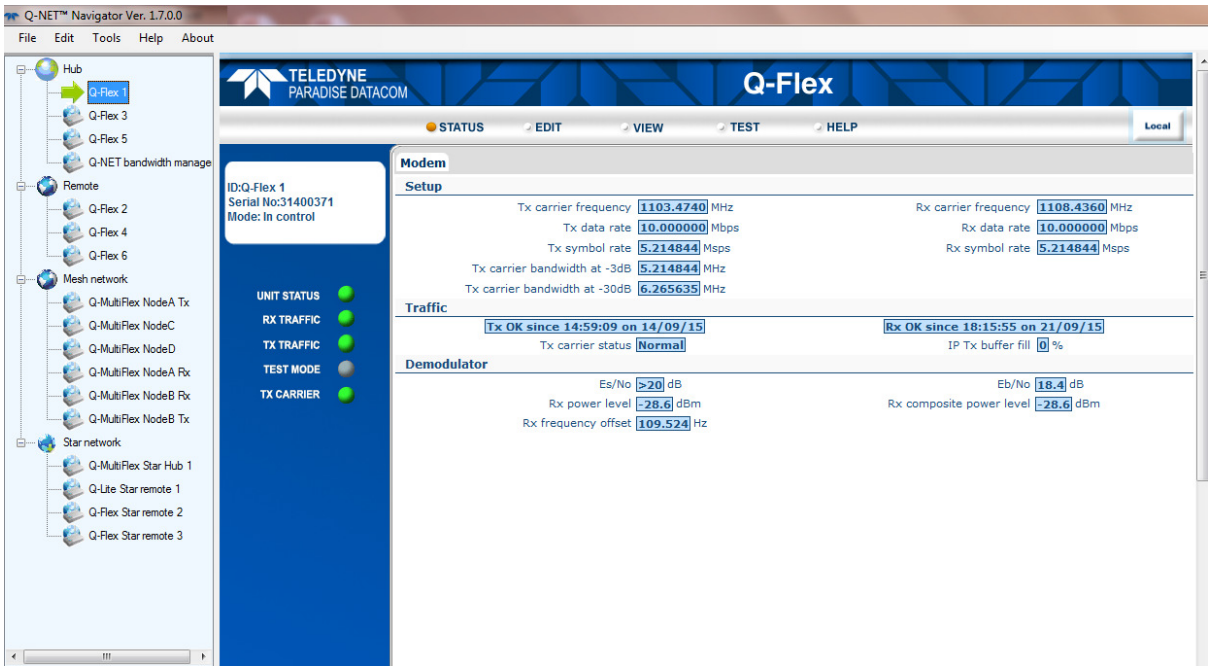

Figure 1-1 Q-NET™ Navigator User Interface

Q-NET™ Navigator (**Figure 1-1**) is a component of the **Q-NET™** satellite hub-remote communications system. It is a lightweight, easy-to-use network management system for point-to-multipoint systems (incorporating **Q-MultiFlex**, **Q-Flex™** and **Q-Lite™** satellite modems). It can also be used to control any Paradise point-to-point system that uses Quantum, Evolution, **Q-Flex™** and **Q-Lite™** satellite modems.

Q-NET™ Navigator complements the use of **Q-NET™ Bandwidth Manager**, which is used for carrier planning and system monitoring.

Q-NET™ Satellite Communications Systems

Q-NET™ is a scalable satellite communications system that supports highly-efficient bandwidth technology and sophisticated carrier and traffic management.

Q-NET™ systems consist of some or all of the following:

- ***Q-NET™ Bandwidth Manager, which provides multi-satellite/transponder carrier planning and high-level system control, monitoring, recording and quality-of-service***

reporting. The Bandwidth Manager runs on standard network server hardware and is accessed via web browser client sessions.

- ***Q-NET™ Navigator allows all modems (and other network devices) in the system to be controlled through a single application. It provides full control over all modem (including multi-demodulator) functions, using an easy-to-navigate site map, which also displays the real-time alarm status of each modem. It complements the high-level control provided by the Bandwidth Manager and the two applications can be used separately or in conjunction with each other.***

  Unlike other systems, Q-NET™ Navigator and Bandwidth Manager can be readily used with other vendors' satellite and network devices, keeping you in charge of your future network expansion options.

- ***Q-MultiFlex™ (modulator/multi-demodulator) and Q-Flex™/Q-Lite™ modems. These represent the state-of-the-art in terms of satellite modem technology, with support for the DVB-S2X standard and an advanced IP single-box solution. Supported network topologies include: point-to-multipoint star, full and partial mesh, hybrid star/mesh and point-to-point. Mesh network implementation is 'hubless' and does not use double-hop communications.***

- ***Network devices (e.g. Ethernet switches and routers). Many switch and router functions are incorporated into our modems and therefore the need for standalone network devices can often be reduced or eliminated.***

The **Q-Flex™** embodies a new concept in satellite modem technology: a flexible software-defined modem that does what you want, now and in the future. The **Q-Flex™** modem provides a flexible hardware platform with support for IF and L-band operation in one unit. Its powerful processor is ideal for handling IP traffic. The **Q-Flex™** modem can be fitted with virtually any type of terrestrial interface and will operate at data rates up to 160Mbps. The **Q-Lite™** has a similar specification to the **Q-Flex™** but is compact, light and uses less power, making it ideal for comms-on-the-move or for minimising the amount of air-conditioned rack space required.

The **Q-MultiFlex™** supports a modulator and up to 16 demodulators, enabling cost-effective point-to-multipoint IP operation. **Q-MultiFlex™** is compatible with the use of **Q-Flex™** and **Lite™** modems at the remote sites. **Q-MultiFlex™** scales to any network size.

This handbook will guide you through the process of installing and using **Q-NET™ Navigator** with your **Q-NET™** system.

1.2 Overview

Q-NET™ Navigator provides the following features:

- It provides a network view of all of the satellite devices in the network. These are displayed as a navigation tree structure, with devices collected together under user-defined groups that represent distinct parts of the system such as remote sites. Multiple networks can be controlled from one or multiple instances of **Q-NET™ Navigator**.
- Network configurations can be backed up and recalled using file import/expert features.
- Automatic status polling is supported for all devices in the navigation tree, giving instant visibility of all system alarms. In addition, alarms can optionally be masked by device and alarm category.
- The user can connect to any device in the navigation tree simply by selecting it, without having to remember IP addresses and login details. This brings up a web browser user interface for the particular device, which can be used to monitor and control every function.
- **Q-NET™ Navigator** will automatically connect to network devices over whatever communications path is available, including over satellite. When moving between devices, the application remembers the last web page being accessed on every device and will return to the same page when the device is next selected.
- **Q-NET™ Navigator** is password protected and supports secure M&C network communications.
- **Q-NET™ Navigator** provides seamless integration with **Q-NET™ Bandwidth Manager**. Both applications can be used in parallel to perform every network operation from provisioning of space segment to routine software upgrades of network devices.

Chapter 2 About This Handbook

2.1 Conventions

This information symbol is intended to alert the user to the presence of important operating instructions critical to correct system function.

2.2 Trademarks

All trademarks used in this handbook are acknowledged to be the property of their respective owners.

2.3 Disclaimer

Although every effort is made to ensure the accuracy and completeness of the information in this handbook, this cannot be guaranteed and the information contained herein does not constitute a product warranty. A separate product warranty statement is available. Teledyne Paradise Datacom maintains a programme of continuous product improvement and reserves the right to change specifications without prior notice.

Chapter 3 User's Guide

3.1 Installation and Upgrade Procedure

Q-NET™ Navigator is a Windows application that runs on any Windows PC or tablet.

Q-NET™ Navigator can be installed on the same devices that run the **Q-NET™ Bandwidth Manager** clients, giving operators access to both **Q-NET™** control applications.

Multiple instances of the application can run concurrently in any location. **Q-NET™ Navigator** supports all versions of Microsoft Windows (32-bit/64-bit) for PCs and tablets.

1. Download the **Q-NET™ Navigator** software from the Downloads area of the Paradise web site at http://www.paradisedata.com/index.php/support_form/downloads/.

   It is provided as a 7-Zip file. 7-Zip is an archiving tool that can be downloaded freely from the internet and is compatible with WinZip. Ensure that 7-Zip or a compatible archive tool is available.

2. Microsoft .NET Framework 4 must be installed on the PC. You can check for this by running 'Programs and Features' from the Windows Control Panel as shown in **Figure 3-1**.

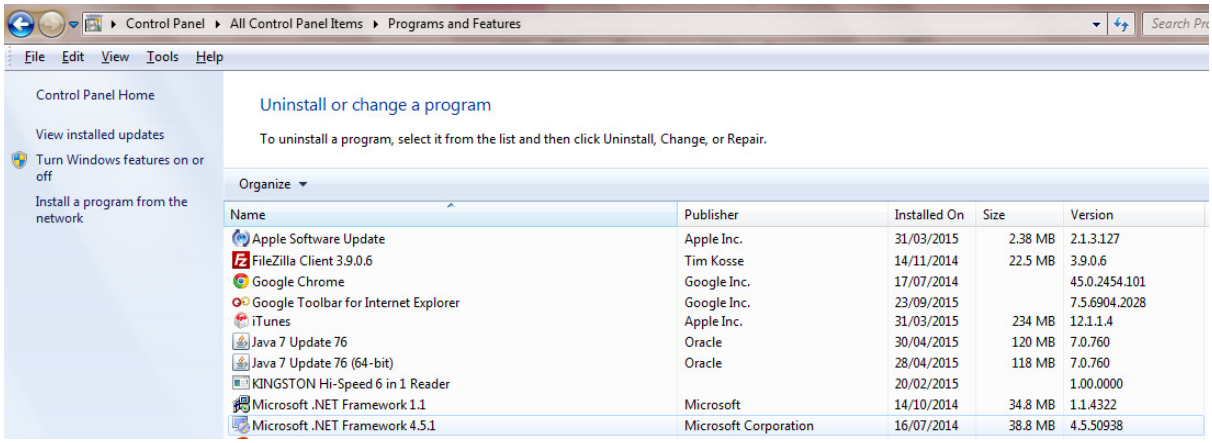
Control Panel ▸ All Control Panel Items ▸ Programs and Features
File Edit View Tools Help
Control Panel Home
View installed updates
Turn Windows features on or off
Install a program from the network
Uninstall or change a program
To uninstall a program, select it from the list and then click Uninstall, Change, or Repair.
Organize
Name Publisher Installed On Size Version
Apple Software Update Apple Inc. 31/03/2015 2.38 MB 2.1.3.127
FileZilla Client 3.9.0.6 Tim Kosse 14/11/2014 22.5 MB 3.9.0.6
Google Chrome Google Inc. 17/07/2014 45.0.2454.101
Google Toolbar for Internet Explorer Google Inc. 23/09/2015 7.5.6904.2028
iTunes Apple Inc. 31/03/2015 234 MB 12.1.1.4
Java 7 Update 76 Oracle 30/04/2015 120 MB 7.0.760
Java 7 Update 76 (64-bit) Oracle 28/04/2015 118 MB 7.0.760
KINGSTON Hi-Speed 6 in 1 Reader 20/02/2015 1.00.0000
Microsoft .NET Framework 1.1 Microsoft 14/10/2014 34.8 MB 1.1.4322
Microsoft .NET Framework 4.5.1 Microsoft Corporation 16/07/2014 38.8 MB 4.5.50938

Figure 3-1 Checking for Microsoft .NET Framework

3. If necessary, Microsoft .NET Framework 4 can be downloaded from https://www.microsoft.com/en-gb/download/details.aspx?id=30653.

4. Navigate to the destination folder where **Q-NET™ Navigator** was downloaded to and open the archive (you may need to right-click on the file and select '*Open*' or '*Open archive*'). The archive tool will display the contents of the zip file (see **Figure 3-2**).

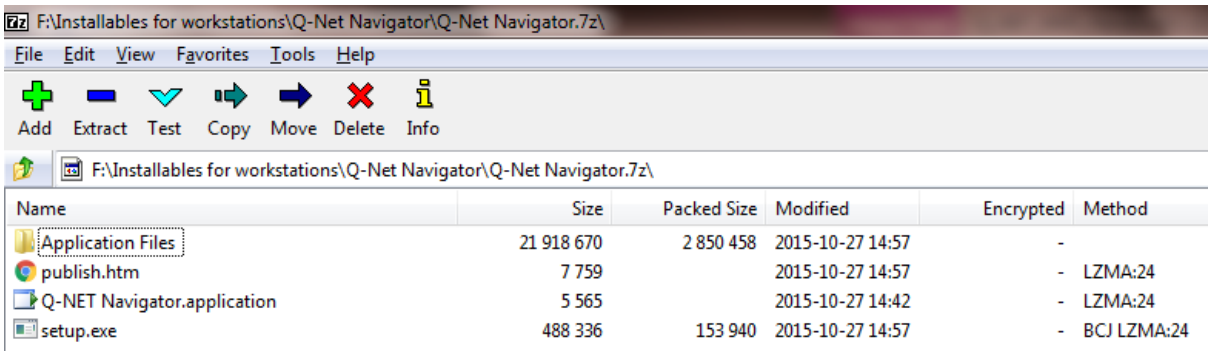
F:\Installables for workstations\Q-Net Navigator\Q-Net Navigator.7z\
File Edit View Favorites Tools Help
Add Extract Test Copy Move Delete Info
F:\Installables for workstations\Q-Net Navigator\Q-Net Navigator.7z\
Name Size Packed Size Modified Encrypted Method
Application Files 21 918 670 2 850 458 2015-10-27 14:57 -
publish.htm 7 759 2015-10-27 14:57 - LZMA:24
Q-NET Navigator.application 5 565 2015-10-27 14:42 - LZMA:24
setup.exe 488 336 153 940 2015-10-27 14:57 - BCJ LZMA:24

Figure 3-2 Zip File Contents

5. Select all of the files in the archive and extract them to the desired destination folder.

6. From the destination folder, double click on the **setup.exe** file. This will run an installation wizard as shown in **Figure 3-3**.

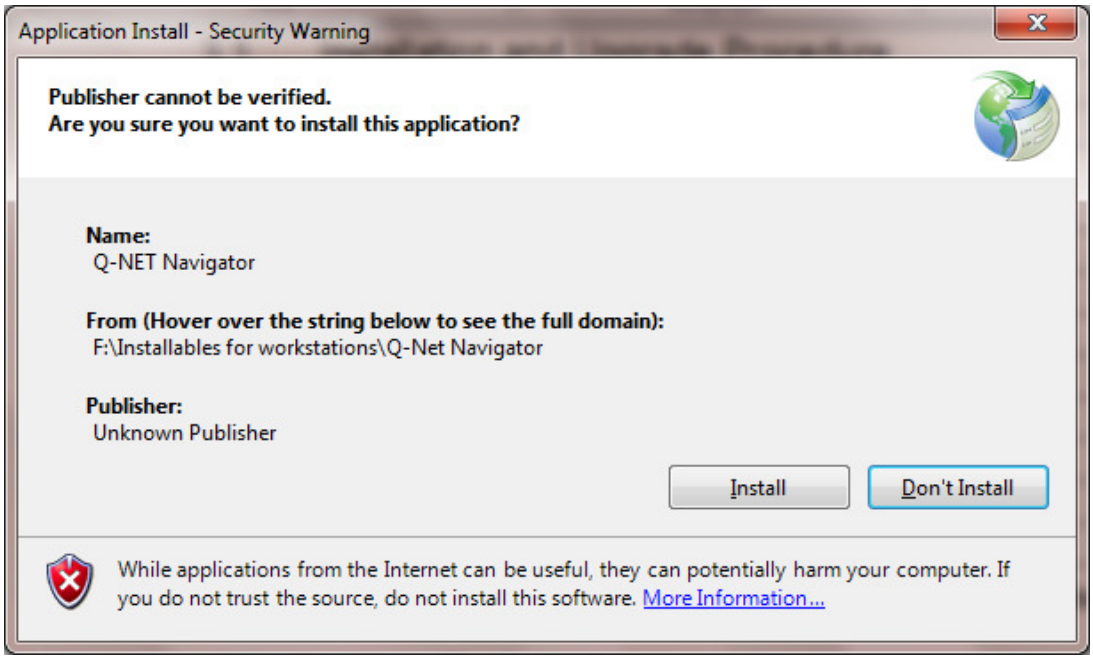
Application Install - Security Warning
Publisher cannot be verified.
Are you sure you want to install this application?
Name:
Q-NET Navigator
From (Hover over the string below to see the full domain):
F:\Installables for workstations\Q-Net Navigator
Publisher:
Unknown Publisher
Install
Don't Install
While applications from the Internet can be useful, they can potentially harm your computer. If you do not trust the source, do not install this software. More Information...

Figure 3-3 Installation Wizard

7. Click on the Install button. If the installation completes normally then the application will automatically start and the dialog box shown in **Figure 3-4** will be displayed. The location where the application is installed will be similar to the following but with the user's name in place of '*myUserName*':

   '*C:\Users\myUserName\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Teledyne Paradise Datacom*'

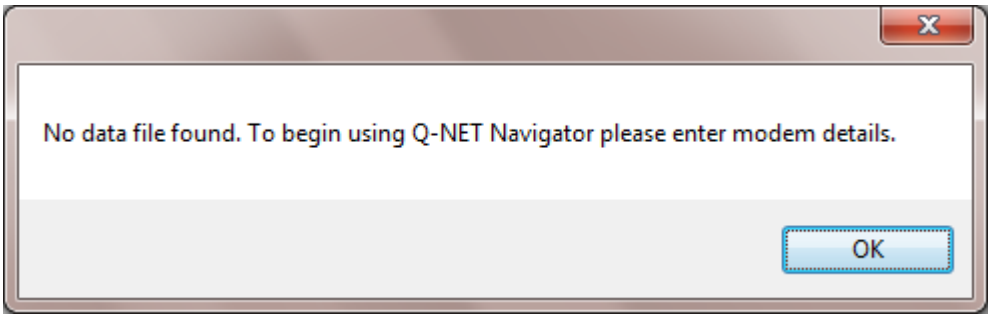

Figure 3-4 Installation Completion

8. Click the OK button. If the application is being installed for the first time then the application will be shown as in **Figure 3-5**. If the application is being upgraded then the pre-upgrade current network navigation tree will be displayed.

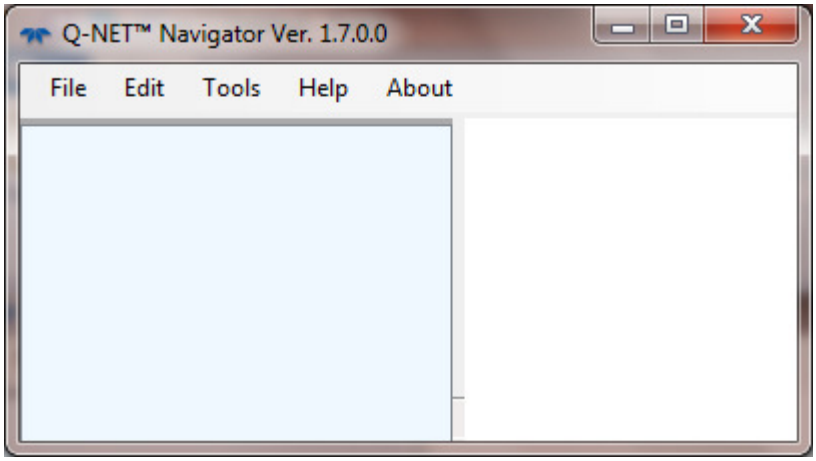

Figure 3-5 Q-NET™ Navigator Initial Start-up Screen

9. If the application fails to install properly then please check the following:

    a. If the dialog box shown in **Figure 3-6** is displayed then ensure that all of the installation files have been extracted properly and then continue from Point 6.

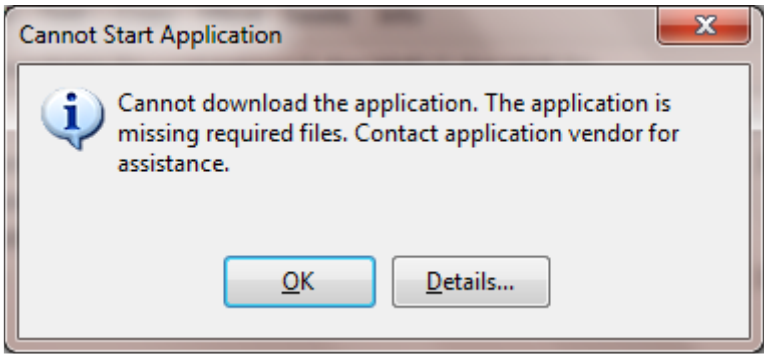
Cannot Start Application
Cannot download the application. The application is missing required files. Contact application vendor for assistance.
OK
Details...

Figure 3-6 Missing Installation Files Dialog Box

    b. If the application has previously been installed then there may be incompatibilities that can be overcome by uninstalling the application and then reinstalling it.

    c. Administrator rights should not be required in order to install the application. However, it may be that installing the application as an Administrator overcomes an obscure permissions issue and allows it to be installed successfully.

3.2 Starting the Application

From the Windows Start menu, search for '*Q-NET Navigator*' as shown in **Figure 3-**7. For convenient access to the application, right click the mouse on '*Q-NET Navigator*' and select '*Pin to Taskbar*' and/or '*Pin to Start Menu*' and/or '*Send to Desktop (create shortcut)*'.

Select '*Q-NET Navigator*' from the Windows Start menu in order to start the application.

The application will start with the same settings as when it was last closed, including being aware of all of the network devices and their settings.

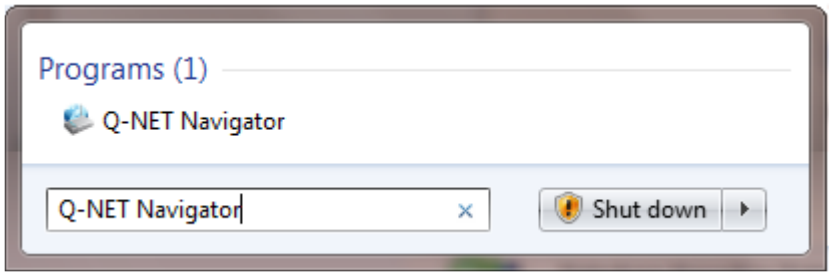

Figure 3-7 Starting Q-NET™ Navigator

The **Q-NET™ Navigator** application has an optional login process, shown in **Figure 3-8**. When password protection is switched on, the user will be requested to enter a valid username and password. The default username and password are 'admin' and 'paradise', respectively.

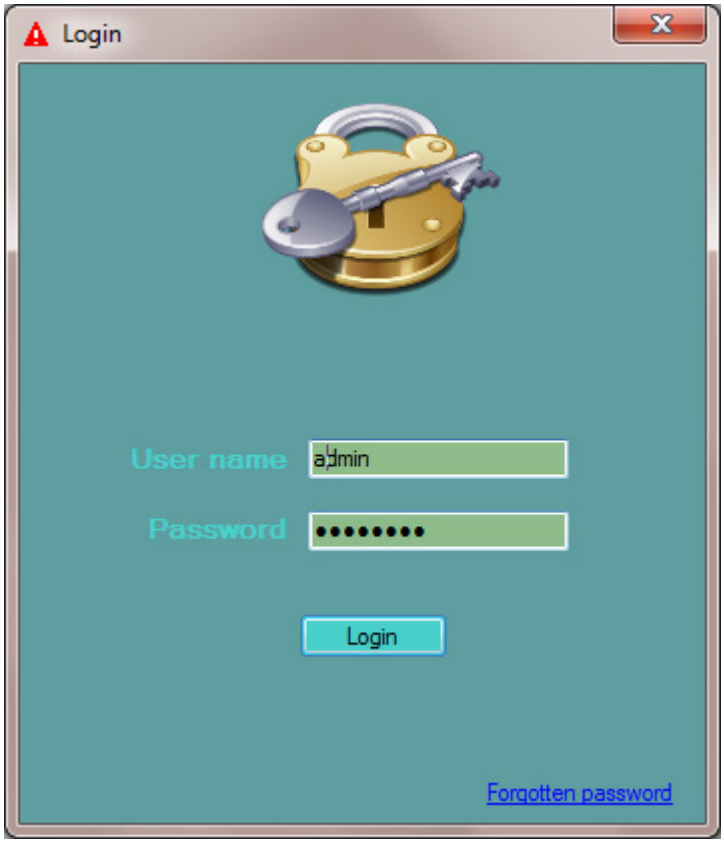

Figure 3-8 Q-NET™ Navigator Login

Selecting '*Forgotten password'* will bring up the dialog box shown in **Figure 3-9**. Selecting '*Yes*' will delete the network topology database and application preferences and it will

cause the username and password to reset to their default values. Selecting '*No*' will return the application to the login prompt.

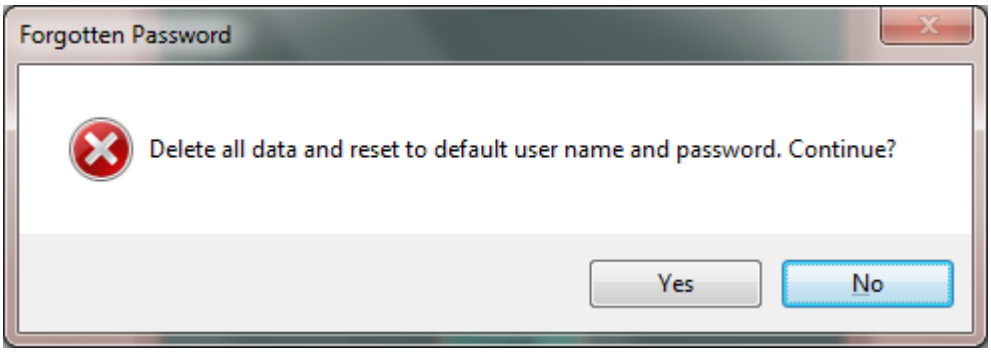

Figure 3-9 Login 'Forgotten password' Dialog Box

3.3 Defining the Network Topology

From the '*Edit'* menu, select '*Network Manage*'.

There are two options under the '*Add*' option, namely, '*Modem*' and '*Group*'.

Groups represent meaningful parts of the network such as sites, racks of equipment or types of service.

Modems can represent any network device or service that has an IP address and is controlled via a web browser. This includes all Paradise Evolution, Quantum, Q-Flex, Q-Lite and Q-MultiFlex modems.

Examples of groups and modems are shown in **Figure 3-10**.

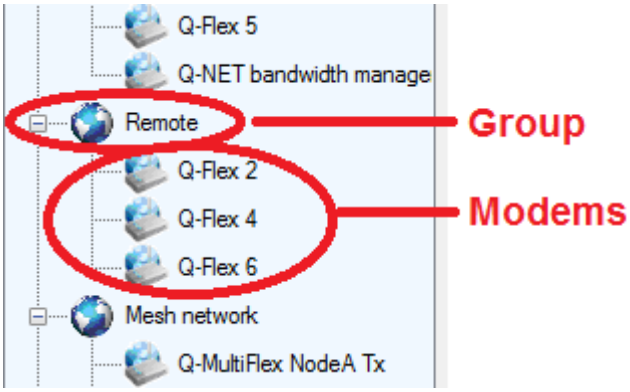

Figure 3-10 Network Topology showing Groups and Modems

3.3.1 Adding Groups

From the '*Edit'* menu, select '*Network*'.

The *Edit->Add->Group* screen is shown in **Figure 3-11**. The process for adding groups is as follows:

- Enter the name of the group.
- Choose the icon to be displayed in connection with the group.
- Select '*Add Group*'.
- Repeat the process for each group.
- Select '*Save*' when all groups have been entered.

The '*Remove*' button can be used to delete groups that are not required. If the group still contains network devices at the point that it is deleted then the network devices will be assigned to a '*Default*' group, which will be created if it does not already exist.

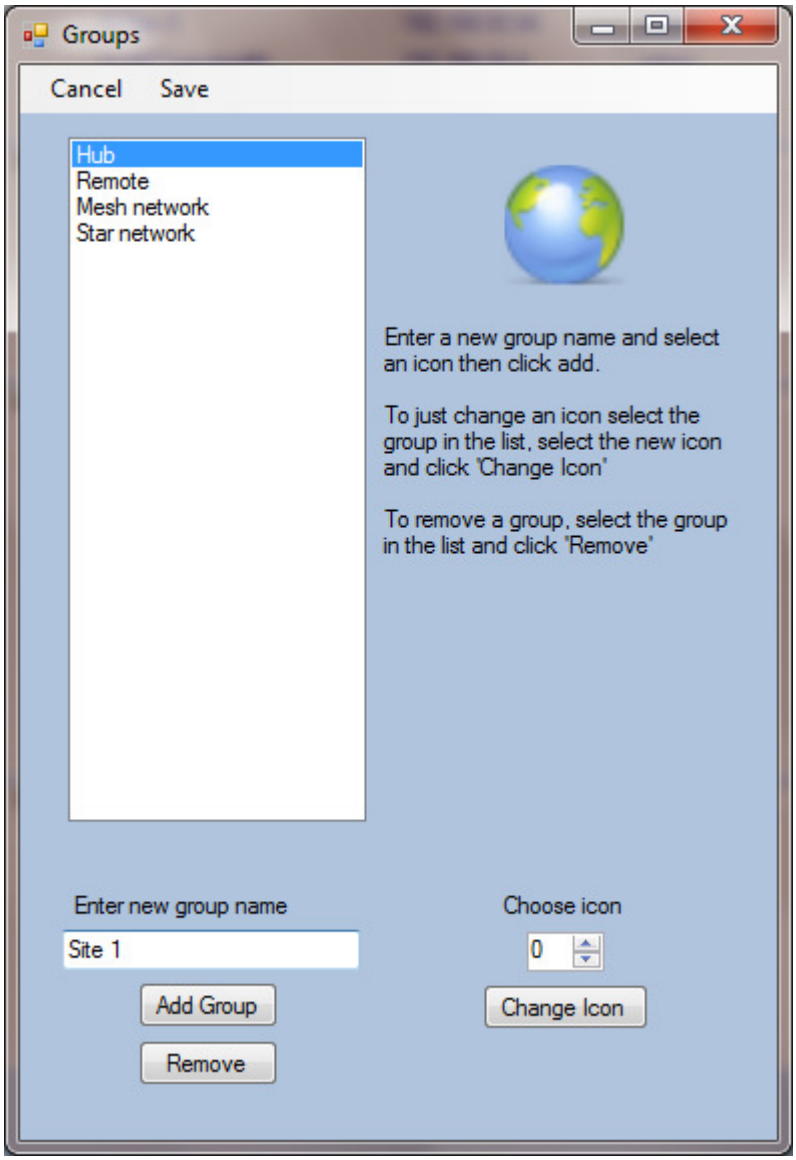

Figure 3-11 Adding Groups to the Network Topology

3.3.2 Adding Modems

To add new modems (or any other network device) to the network, select '*Network*' from the '*Edit'* menu.

The *Edit->Add->Modem* screen is shown in **Figure 3-12**. In order to speed up the manual entry of network data, the application will prepopulate some fields such as IP addresses and username/passwords based on the previous data entered by the user.

The process for adding modems is as follows:

- Enter the IP address of the modem.
- If the modem is currently accessible over the local network then select '*Lookup*' to automatically complete the name of the modem, otherwise enter the name (identity) of the modem. When using the lookup feature, the serial number of the modem will also be displayed as confirmation of the modem's identity.
- Assign the modem to a group using the '*Group*' dropdown box, which will list all of the defined groups.
- Enter the username and password to be used when logging into the modem. Setting the '*Use factory defaults*' will populate the username and password with factory default values.
- Optionally mask Tx and/or Rx alarms if the modem is not providing a bidirectional service. This will prevent spurious alarms being raised as a result of regular polling by the application.
- Check the '*Use HTTPS*' box if a secure connection to the modem is required.
- Select '*Save*'.
- Repeat the process for each modem.

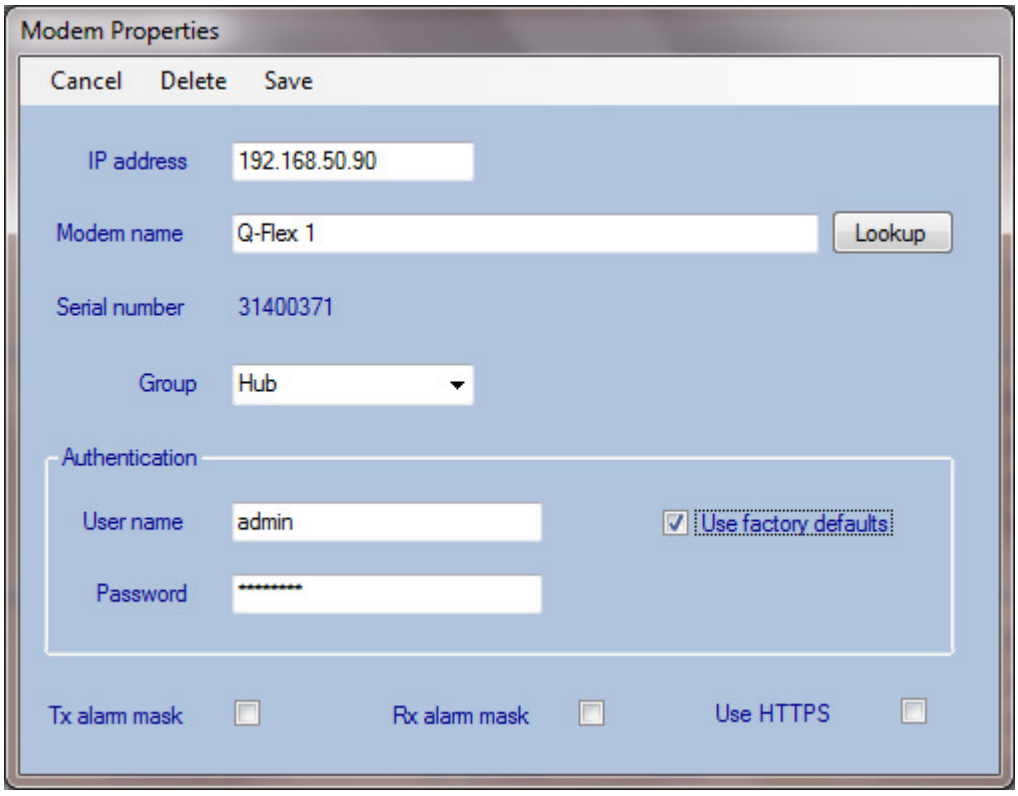

Figure 3-12 Adding Modems to the Network Topology

The '*Delete*' button can be used to delete modems that are not required.

It is strongly recommended that the network topology is backed up before and after changes are made. This can be done using the File->Export menu option.

3.4 Editing the Network Topology

Once the network topology has been defined, it can be edited in order to keep it up to date.

To edit the network, from the '*Edit'* menu, select '*Network*'. The current network will be displayed as shown in **Figure 3-13**.

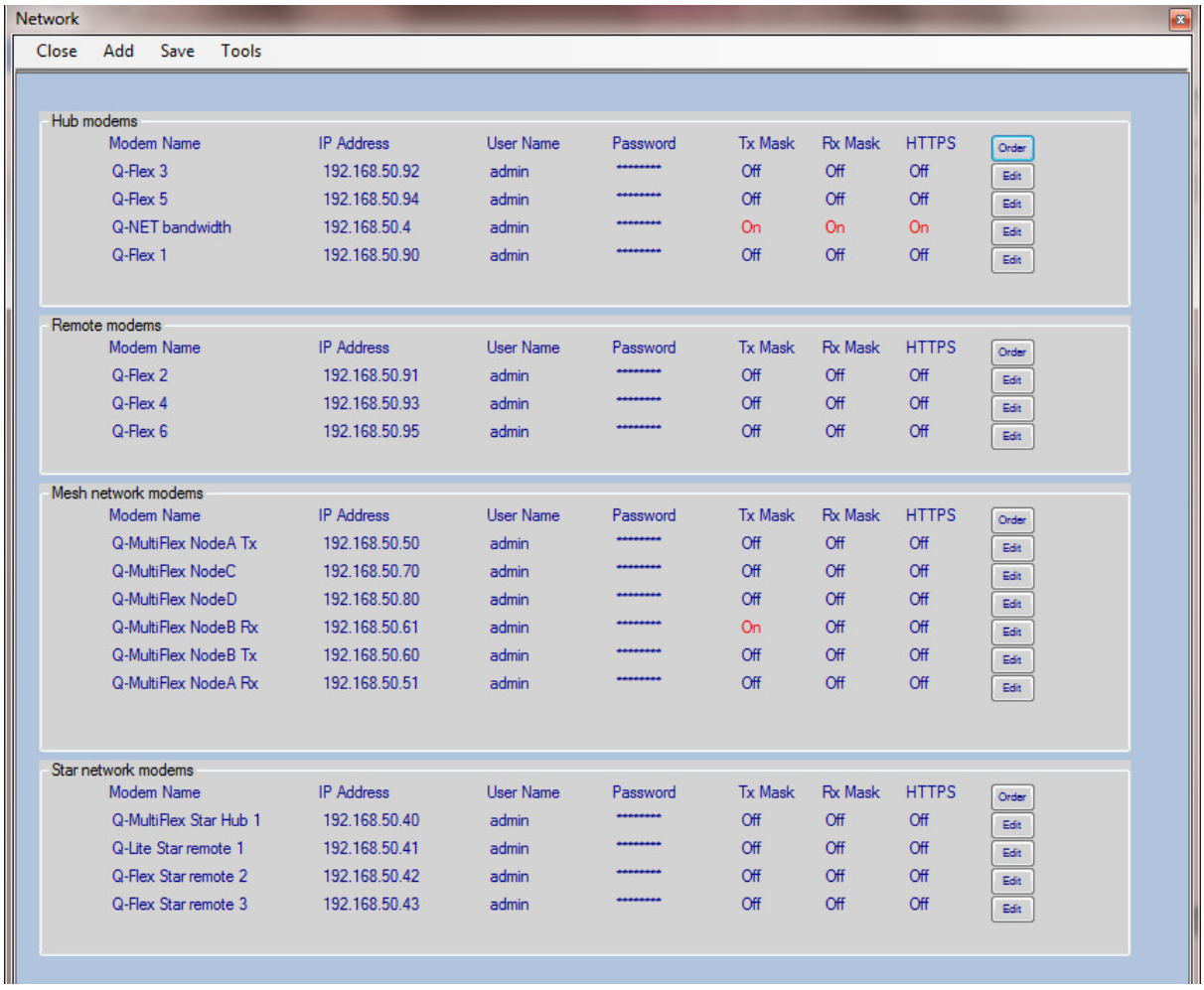
Network
Close
Add
Save
Tools
Hub modems
Modem Name | IP Address | User Name | Password | Tx Mask | Rx Mask | HTTPS | Order
Q-Flex 3 | 192.168.50.92 | admin | ******** | Off | Off | Off | Edit
Q-Flex 5 | 192.168.50.94 | admin | ******** | Off | Off | Off | Edit
Q-NET bandwidth | 192.168.50.4 | admin | ******** | On | On | On | Edit
Q-Flex 1 | 192.168.50.90 | admin | ******** | Off | Off | Off | Edit
Remote modems
Modem Name | IP Address | User Name | Password | Tx Mask | Rx Mask | HTTPS | Order
Q-Flex 2 | 192.168.50.91 | admin | ******** | Off | Off | Off | Edit
Q-Flex 4 | 192.168.50.93 | admin | ******** | Off | Off | Off | Edit
Q-Flex 6 | 192.168.50.95 | admin | ******** | Off | Off | Off | Edit
Mesh network modems
Modem Name | IP Address | User Name | Password | Tx Mask | Rx Mask | HTTPS | Order
Q-MultiFlex NodeA Tx | 192.168.50.50 | admin | ******** | Off | Off | Off | Edit
Q-MultiFlex NodeC | 192.168.50.70 | admin | ******** | Off | Off | Off | Edit
Q-MultiFlex NodeD | 192.168.50.80 | admin | ******** | Off | Off | Off | Edit
Q-MultiFlex NodeB Rx | 192.168.50.61 | admin | ******** | On | Off | Off | Edit
Q-MultiFlex NodeB Tx | 192.168.50.60 | admin | ******** | Off | Off | Off | Edit
Q-MultiFlex NodeA Rx | 192.168.50.51 | admin | ******** | Off | Off | Off | Edit
Star network modems
Modem Name | IP Address | User Name | Password | Tx Mask | Rx Mask | HTTPS | Order
Q-MultiFlex Star Hub 1 | 192.168.50.40 | admin | ******** | Off | Off | Off | Edit
Q-Lite Star remote 1 | 192.168.50.41 | admin | ******** | Off | Off | Off | Edit
Q-Flex Star remote 2 | 192.168.50.42 | admin | ******** | Off | Off | Off | Edit
Q-Flex Star remote 3 | 192.168.50.43 | admin | ******** | Off | Off | Off | Edit

Figure 3-13 Edit Menu, showing the Network

Use the '*Edit'* buttons to edit the details of individual modems. This will bring up the modem settings shown earlier in **Figure 3-12**.

3.5 Edit Options

The *Edit->Options* dialog box is shown in **Figure 3-14**.

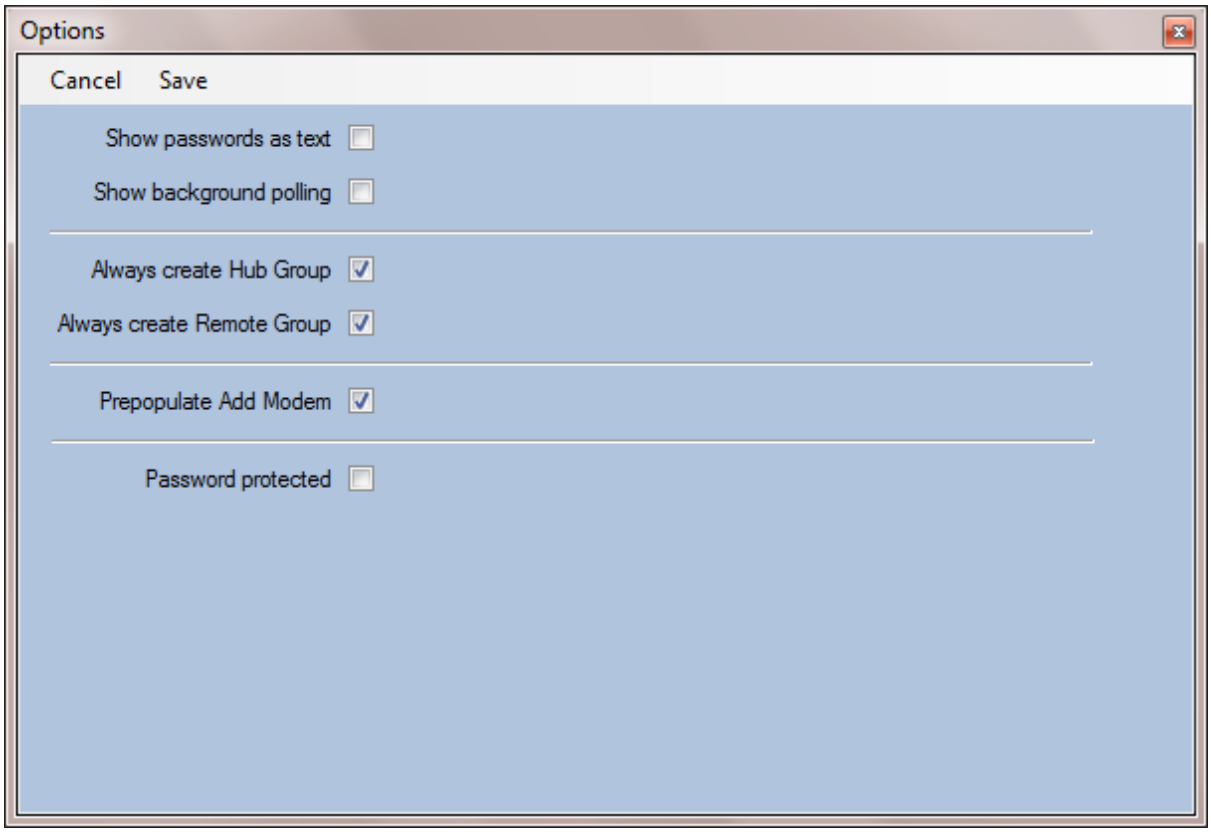

Figure 3-14 Edit->Options Dialog Box

The following options are available:

- *Show passwords as text*. This displays the password as it is typed, rather than replacing the typed characters with asterisks.
- *Show background polling*. Modems are continuously polled for their status in the background. The status is reflected in the modem icons, which change when there is a fault. Normally the polling process itself is invisible but when *Show background polling* is on, the Status Bar at the bottom of the application (**Figure 3-15**) will show the status requests and results for each modem in turn.
- *Always create Hub/Remote Group*. Hub and Remote groups are created by default. If these are not required then they can be switched off so that only user-defined groups are used.
- *Prepopulate Add Modem*. In order to speed up the manual entry of network data, the application can prepopulate some fields such as IP addresses and username/passwords based on the previous data entered by the user. If this is not required, then the checkbox should be unchecked.

- *Password protected*. The **Q-NET™ Navigator** application itself can optionally be password protected. When this is switched on, the application will request the user to enter a valid username and password when the application starts and prior to changing application preferences.

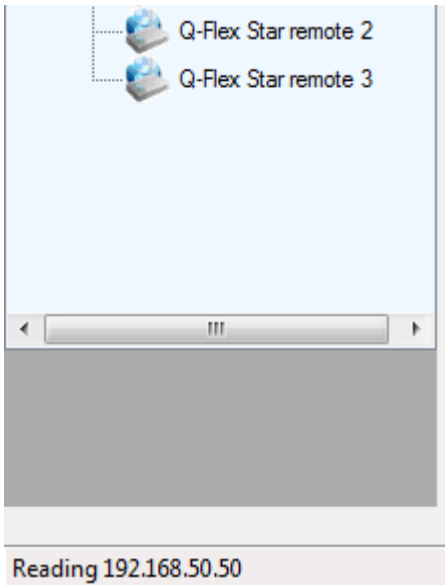

Figure 3-15 Background Polling of Modem Status, displayed on Status Bar

3.6 Tools Menu

The '*Tools'* menu is shown in **Figure 3-16**.

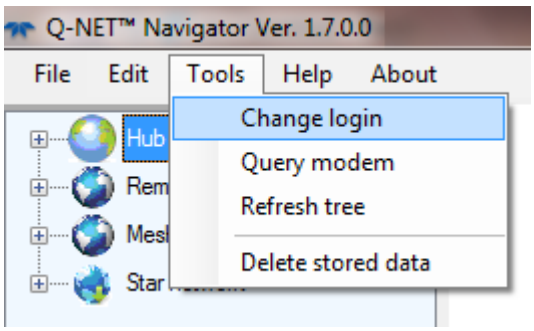

Figure 3-16 'Tools' Menu

The options available are:

- *Change login.* This allows the username and password to be changed as shown in **Figure 3-17**. In both cases, the current password has to be entered. The new username or password must then be entered twice.
- *Query modem.* Selecting this option brings up the screen shown in **Figure 3-18**. This can be used to query individual modems for their front-panel LED status

information as shown in the example by pressing the 'Fetch Data' button (for more details of the LED status indicators, see the relevant modem user manual).

- *Refresh tree*. When entering new network devices, this option will update the navigation tree to show the changes if it has not already automatically updated.
- *Delete stored data*. If the data file that is used to store the network topology and user preferences becomes corrupted or is no longer relevant, then it can be deleted using this option.

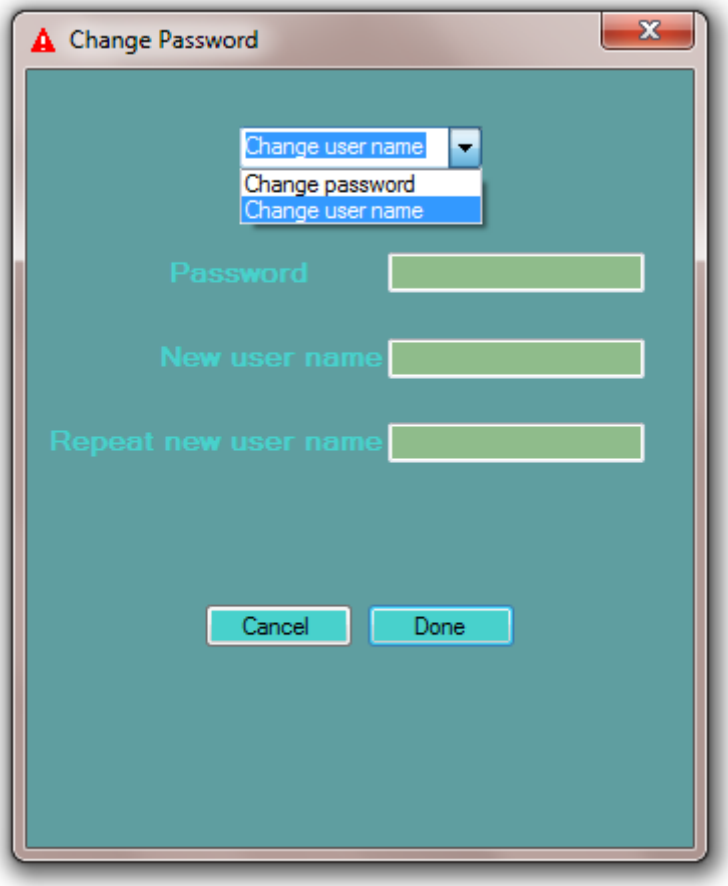

Figure 3-17 'Change login' Dialog Box

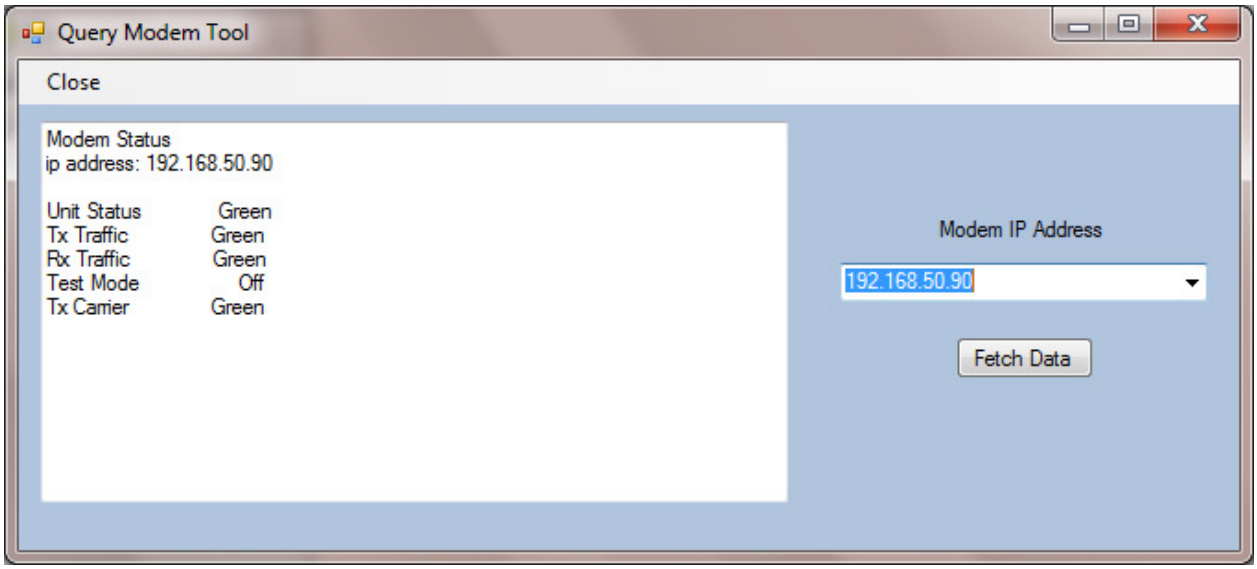

Figure 3-18 'Query modem' Screen

3.7 Help

Selecting the '*Help'* menu option results in this user manual being displayed.

3.8 About

Selecting the '*About'* menu option displays the dialog box shown in **Figure 3-19**.

About Q-NET™ Navigator
Q-NET™ Navigator
Version 1.7.0.0
Copyright © Teledyne Paradise Datacom 2015
Teledyne Paradise Datacom
Satellite network management system designed by Teledyne Paradise Datacom. It can be used either as a standalone control application or in conjunction with complementary Q-NET control components such as Q-NET Bandwidth Manager.
OK

Figure 3-19 'About' Screen

3.9 File Menu

The '*File*' menu is shown in **Figure 3-20**. It is used to export and import data files that represent the network topology and user preferences for the application.

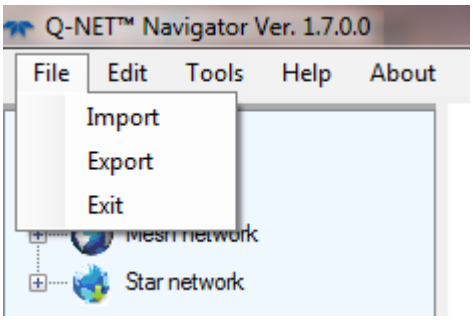

Figure 3-20 'File' Menu

The file export and import functions can be used for the following:

- Making regular backups of the network topology.
- Copying the network topology to different computers.
- Storing separate network topologies in different files.
- Restricting network access to defined subsets for different classes of user. Different views or versions of the network can be created that restrict network access, such as allowing a user to access a subset of remote sites but no hub sites. Each variant can be saved using the *File->Export* menu option and then imported onto the user's computer using the *File->Import* option.

Selecting the '*Import*' menu option brings up the dialog box shown in **Figure 3-21**, which allows the user to navigate to the file location of an existing data file.

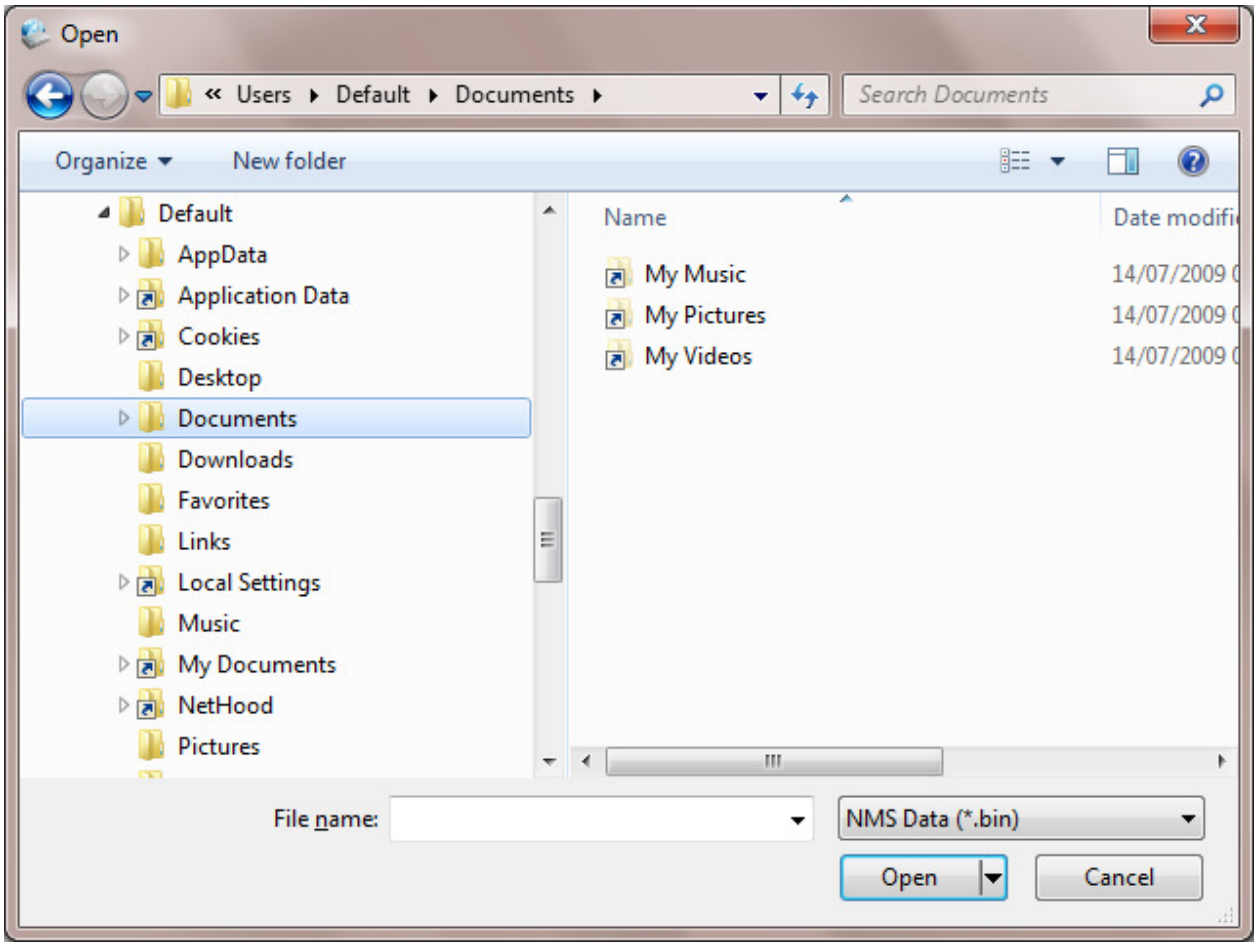

Figure 3-21 'Import' Dialog Box

Selecting the '*Export*' menu option brings up the dialog box shown in **Figure 3-22**, which allows the user to navigate to the file location where the data file is to be stored.

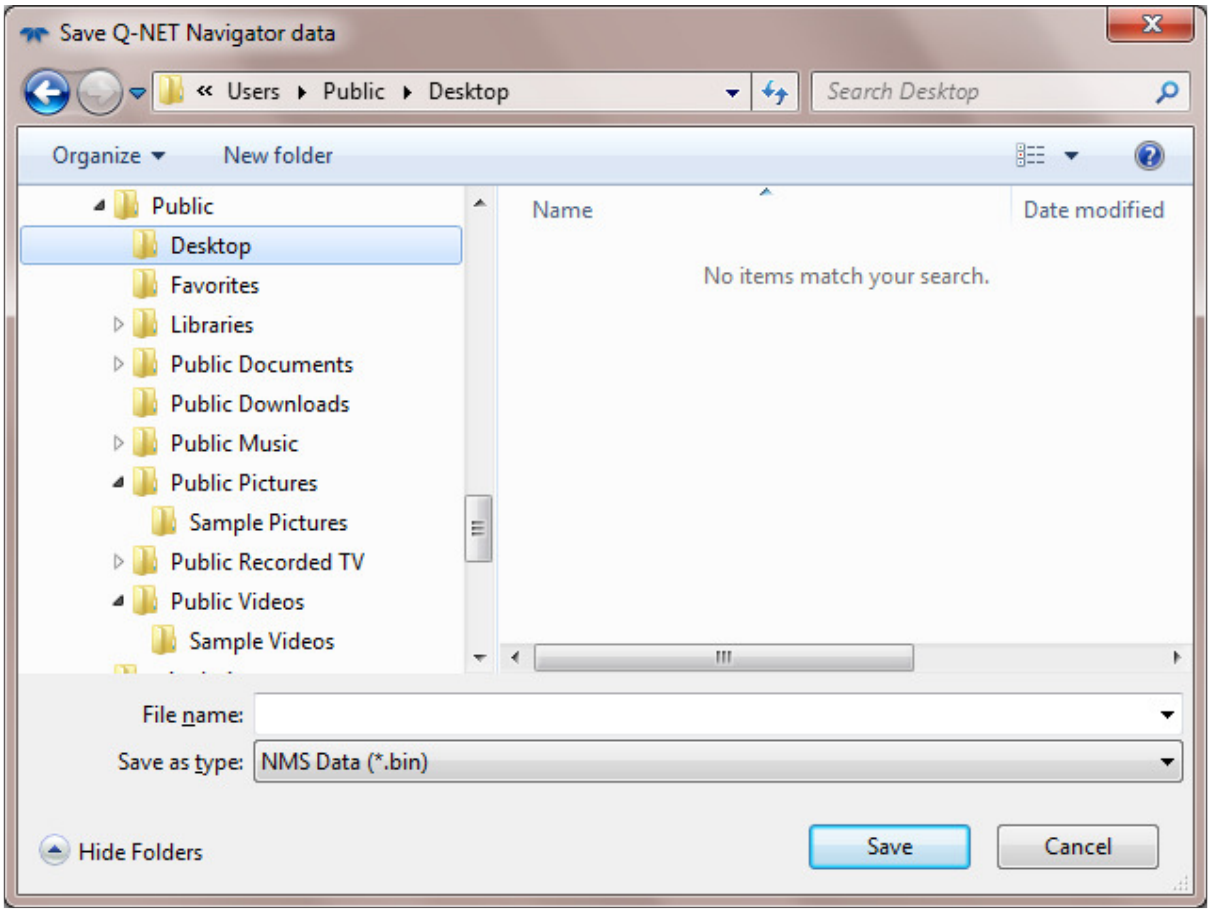

Figure 3-22 'Export' Dialog Box

The file menu '*Exit'* option is used to exit the application.

3.10 Network Alarm and Status Reporting

The network navigation tree uses a number of icons to represent the status of network devices as shown in **Figure 3-23**.

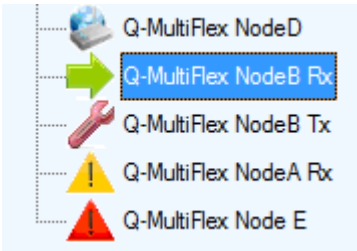

Figure 3-23 Network Status/Alarm Indicators

Icons have the following meanings:

- Globe icon. This indicates that the network device is functioning correctly and is not reporting any alarms.
- Spanner icon. This indicates that the modem is in a test mode.
- Yellow warning triangle. This indicates a transmit or receive traffic fault with the modem.
- Red warning triangle. This indicates a communications failure with the modem.

Selecting a particular network modem and right clicking on its icon will bring up a menu that contains an 'Alarm status' option as shown in **Figure 3-24**. Selecting this will display the alarm status screen shown in **Figure 3-25**. The '*Close*' option closes the screen.

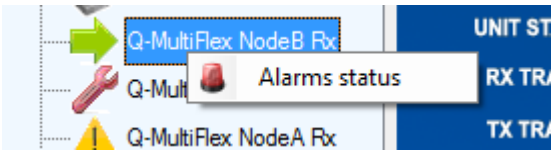

Figure 3-24 Modem Alarm Status Menu Option

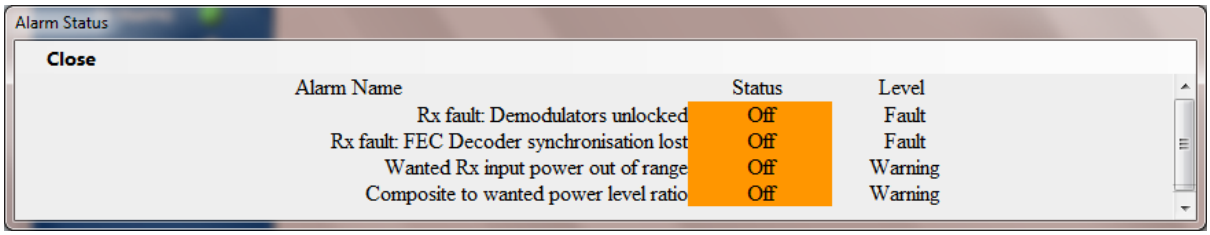

Figure 3-25 Modem Alarm Status

In addition, the right-hand window pane of the application can be used to display further status and alarm information for the modem as documented in the operating handbook for the modem.

3.11 Network Navigation

The network devices, which typically represent satellite modems, are arranged in a navigation tree. Visibility of the network can be increased or reduced by clicking on the +/- signs.

Selecting any modem by clicking on its associated icon will cause a web user interface session to be instigated to the modem's embedded web server. This session will be displayed in the right-hand window pane of the application as shown in **Figure 3-26**.

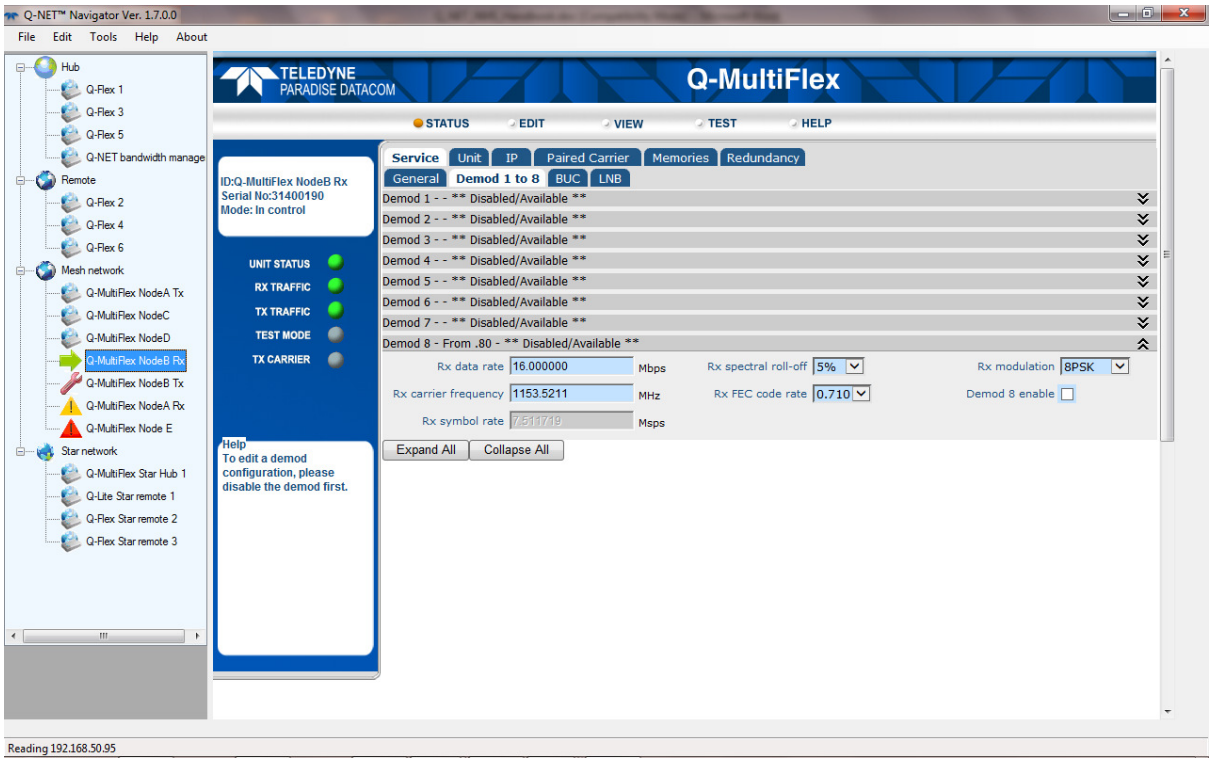

Figure 3-26 Network Navigation and Modem Web User Interface

The network device associated with the current web session is indicated by a green arrow in the navigation pane as shown in **Figure 3-26**. When moving between network devices, the application remembers which web page was last displayed when accessing that particular device and returns to the same web page.

Modem control, using the web user interface, is documented separately in the relevant modem operating handbook.

Network devices other than satellite modems that support web user interfaces can be controlled, as shown in the example of **Figure 3-27**, which shows the **Q-NET™ Bandwidth Manager**. The **Bandwidth Manager** is documented separately.

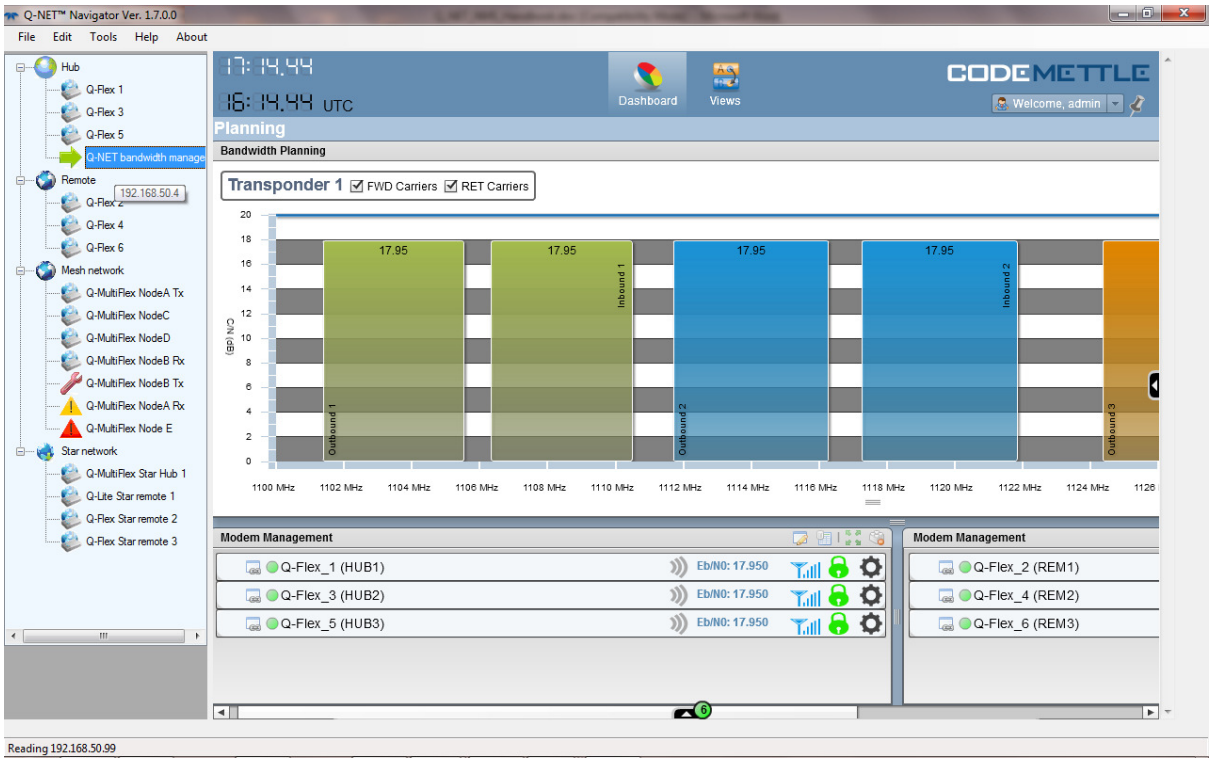

Figure 3-27 Web User Interface for Q-NET™ Bandwidth Manager

3.12 Reordering Components within the Network Navigation Tree

Groups and network devices can be reordered in the navigation tree as follows.

To reorder groups, select *Edit->Network->Tools->Reorder groups*. This will display the screen shown in **Figure 3-28**.

Network
Close
Add
Save
Tools
Hub modems
Modem Name IP Address User Name Password Tx Mask Rx Mask HTTPS Order
Q-Flex 1 192.168.50.90 admin ******** Off Off Off Edit
Q-Flex 3 192.168.50.92 admin ******** Off Off Off Edit
Q-Flex 5 192.168.50.94 admin ******** Off Off Off Edit
192.168.50. admin ******** On On On Edit
Remote modems
Modem Name IP Address User Name Password Tx Mask Rx Mask HTTPS Order
Q-Flex 2 192.168.50.91 admin ******** Off Off Off Edit
Q-Flex 4 192.168.50.93 admin ******** Off Off Off Edit
Q-Flex 6 192.168.50.95 admin ******** Off Off Off Edit
Mesh network modems
Modem Name IP Address User Name Password Tx Mask Rx Mask HTTPS Order
Q-MultiFlex NodeA Tx 192.168.50.50 admin ******** Off Off Off Edit
Q-MultiFlex NodeC 192.168.50.70 admin ******** Off Off Off Edit
Q-MultiFlex NodeD 192.168.50.80 admin ******** Off Off Off Edit
Q-MultiFlex NodeB Rx 192.168.50.61 admin ******** On Off Off Edit
Q-MultiFlex NodeB Tx 192.168.50.60 admin ******** Off Off Off Edit
Q-MultiFlex NodeA Rx 192.168.50.51 admin ******** Off Off Off Edit
Q-MultiFlex Node E 192.168.50.99 admin ******** Off Off Off Edit
Star network modems
Modem Name IP Address User Name Password Tx Mask Rx Mask HTTPS Order
Q-MultiFlex Star Hub 1 192.168.50.40 admin ******** Off Off Off Edit
Q-Lite Star remote 1 192.168.50.41 admin ******** Off Off Off Edit
Q-Flex Star remote 2 192.168.50.42 admin ******** Off Off Off Edit
Q-Flex Star remote 3 192.168.50.43 admin ******** Off Off Off Edit

Figure 3-28 Reordering Groups in the Network Navigation Tree

By clicking the mouse on an empty area of any group box where there is no text, it can be dragged to a new location as shown in the example of **Figure 3-29**, where the mesh network group has been dragged below the star network group.

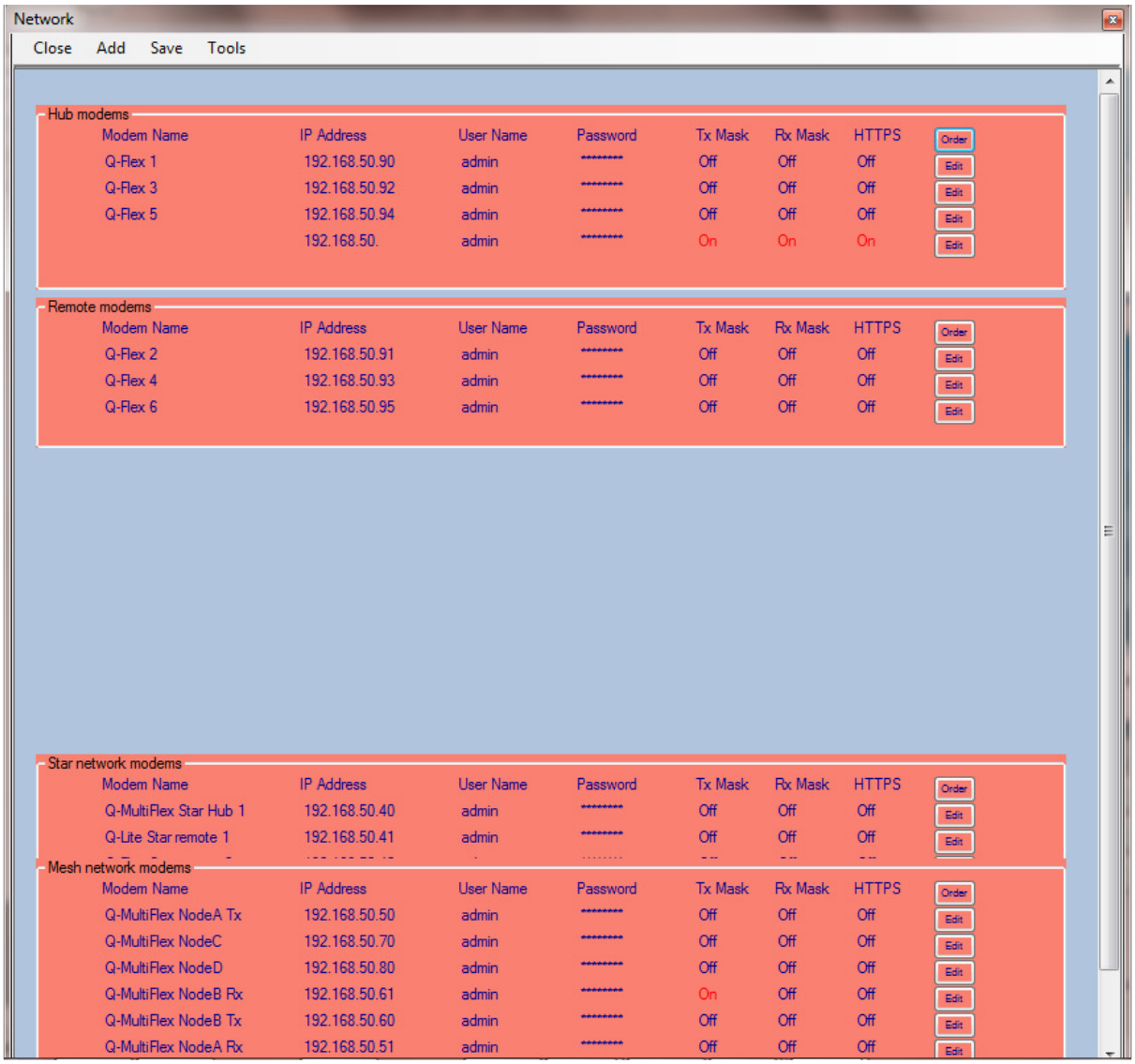

Figure 3-29 'Drag and drop' of Mesh Network below Star Network

The precise position of the group boxes does not matter, as the application notes the relative position of the top-left pixel of each group box and reorders them accordingly. In this example, selecting '*Save*' results in the screen shown in **Figure 3-30** being displayed, which shows that the star network is now positioned above the mesh network, in contrast to their initial positions shown in **Figure 3-28**. The network navigation tree will reflect this new order as shown in **Figure 3-31**.

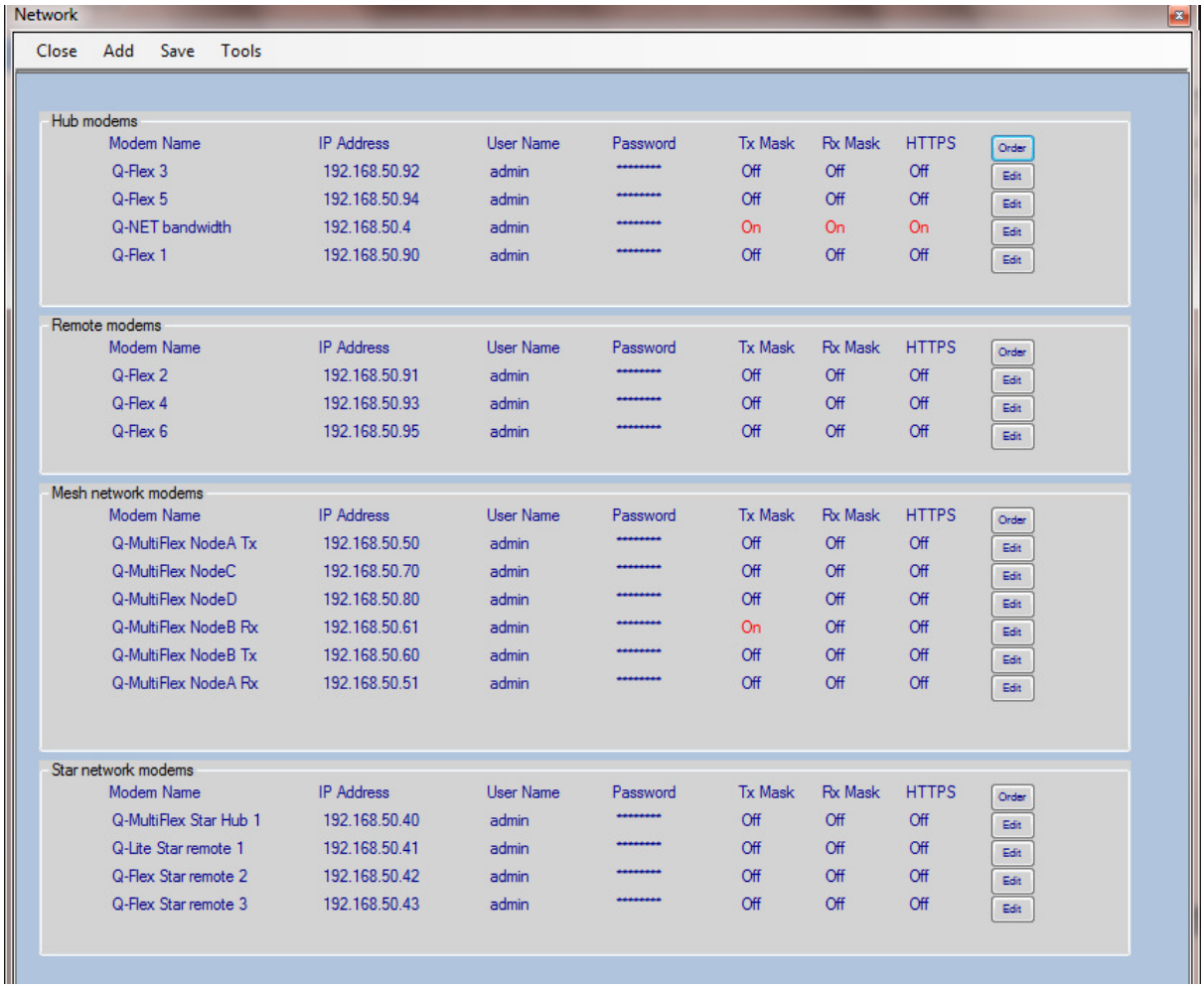
Network
Close
Add
Save
Tools
Hub modems
Modem Name IP Address User Name Password Tx Mask Rx Mask HTTPS
Q-Flex 3 192.168.50.92 admin ******** Off Off Off
Q-Flex 5 192.168.50.94 admin ******** Off Off Off
Q-NET bandwidth 192.168.50.4 admin ******** On On On
Q-Flex 1 192.168.50.90 admin ******** Off Off Off
Remote modems
Modem Name IP Address User Name Password Tx Mask Rx Mask HTTPS
Q-Flex 2 192.168.50.91 admin ******** Off Off Off
Q-Flex 4 192.168.50.93 admin ******** Off Off Off
Q-Flex 6 192.168.50.95 admin ******** Off Off Off
Mesh network modems
Modem Name IP Address User Name Password Tx Mask Rx Mask HTTPS
Q-MultiFlex NodeA Tx 192.168.50.50 admin ******** Off Off Off
Q-MultiFlex NodeC 192.168.50.70 admin ******** Off Off Off
Q-MultiFlex NodeD 192.168.50.80 admin ******** Off Off Off
Q-MultiFlex NodeB Rx 192.168.50.61 admin ******** On Off Off
Q-MultiFlex NodeB Tx 192.168.50.60 admin ******** Off Off Off
Q-MultiFlex NodeA Rx 192.168.50.51 admin ******** Off Off Off
Star network modems
Modem Name IP Address User Name Password Tx Mask Rx Mask HTTPS
Q-MultiFlex Star Hub 1 192.168.50.40 admin ******** Off Off Off
Q-Lite Star remote 1 192.168.50.41 admin ******** Off Off Off
Q-Flex Star remote 2 192.168.50.42 admin ******** Off Off Off
Q-Flex Star remote 3 192.168.50.43 admin ******** Off Off Off
Order
Edit

Figure 3-30 Reordered Groups following 'Drag and drop'

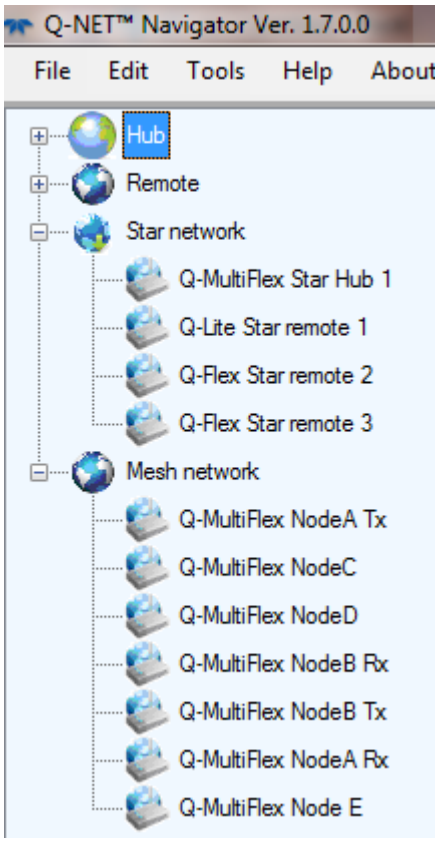

Figure 3-31 Reordered Groups in the Network Navigation Tree

Network devices can be reordered in the navigation tree as follows. Select *Edit->Network* and then select the '*Order*' button for the group in which devices require to be reordered (see the example in **Figure 3-32**).

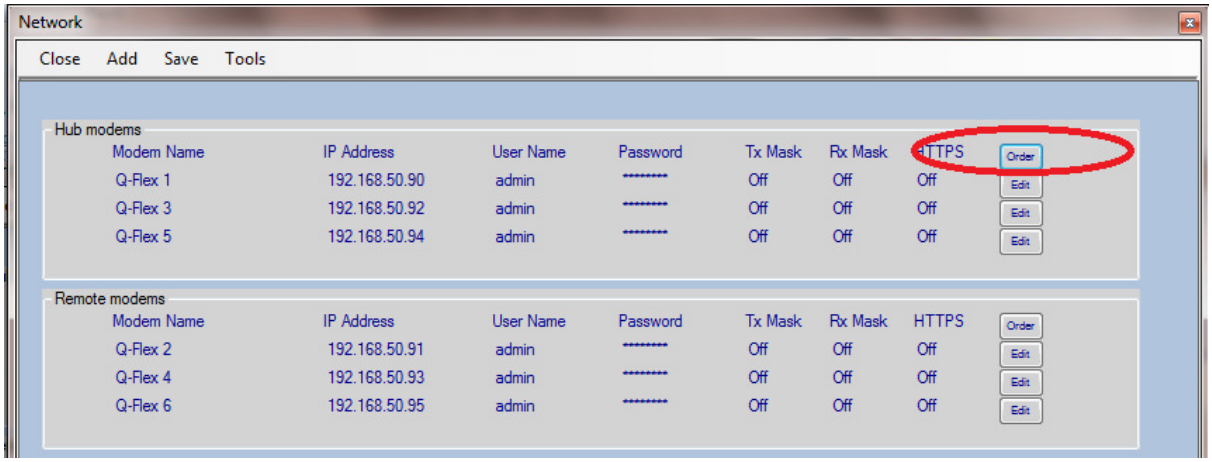

Figure 3-32 Changing the Order of Network Devices

Selecting the '*Order*' button results in the display shown in **Figure 3-33**. This shows the IP addresses of the devices in the group in their current order.

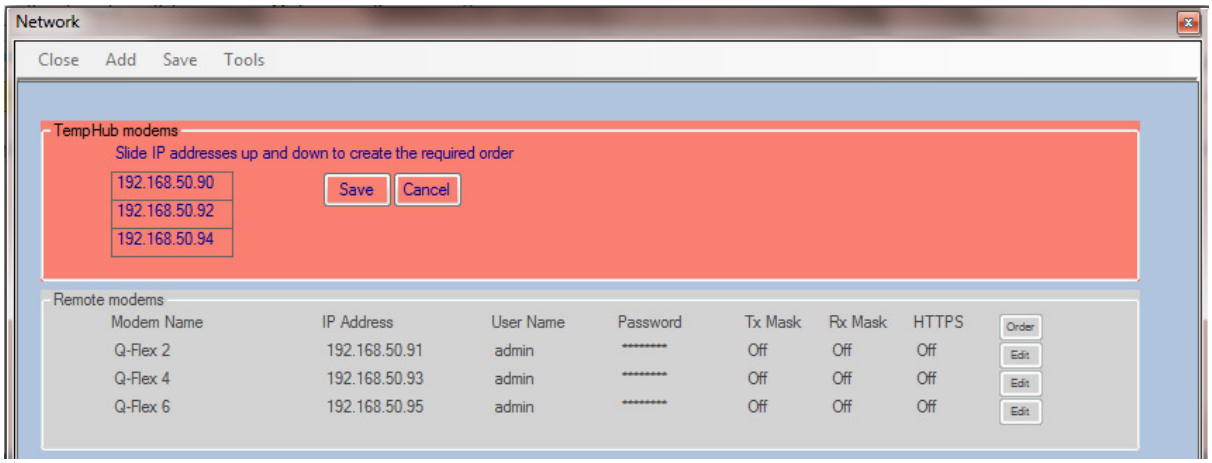

Figure 3-33 Changing the Order of Network Devices

Each of the highlit IP addresses can be dragged and dropped in order to change their relative positions, as shown in **Figure 3-34**.

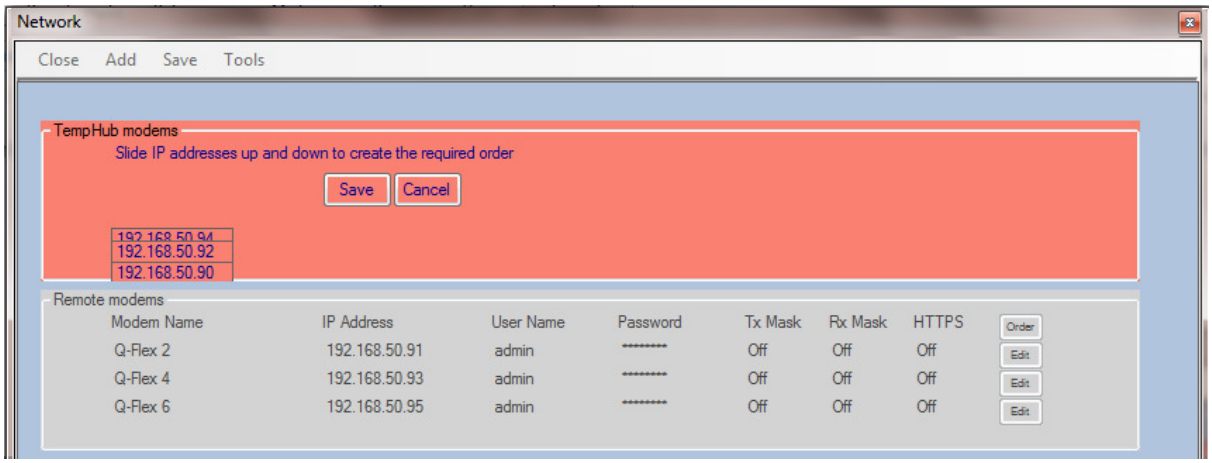

Figure 3-34 'Drag and drop' of Devices (reversing the order from lowest IP address first to to highest IP address first)

The precise position of the IP address boxes does not matter, as the application notes the relative position of the top-left pixel of each box and reorders them accordingly. In this example, selecting '*Save*' results in the screen shown in **Figure 3-35** being displayed, which shows that the devices in the Hub have been reversed in order, in contrast to their initial positions shown in **Figure 3-32**. The network navigation tree will reflect this new order as shown in **Figure 3-36**.

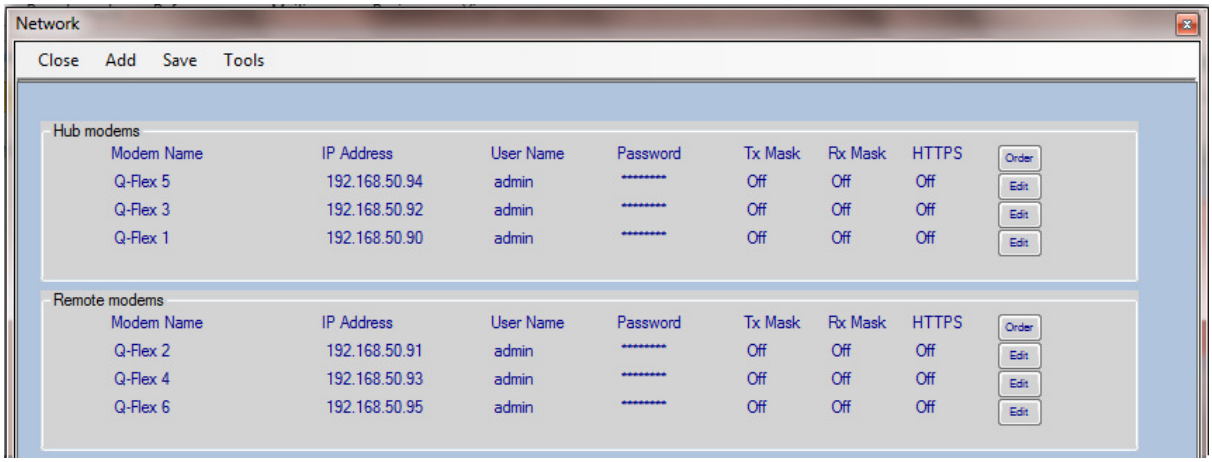

Figure 3-35 Reordered Hub Modems following 'Drag and drop'

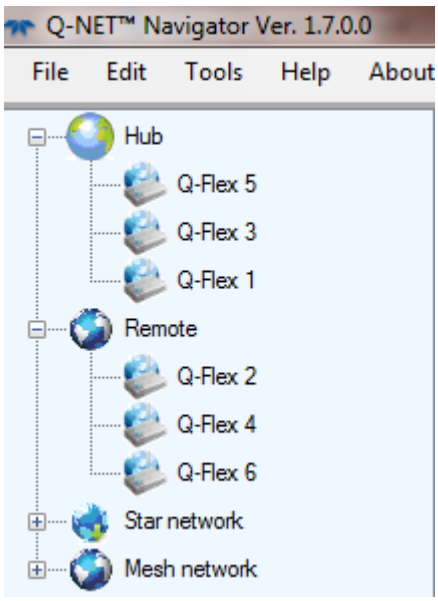

Figure 3-36 Reordered Hub Modems in the Network Navigation Tree

Chapter 4 Technical Support

Technical Support can help with:

- Queries regarding equipment operation.
- The return of equipment for upgrade or repair.
- Customer training.
- Application notes and white papers.

Contact details in Europe and North America are as follows:

Teledyne Paradise Datacom Ltd.
2&3 The Matchyns, Rivenhall End,
Witham, Essex, CM8 3HA, England.
Tel: +44(0)1376 515636
Fax: +44(0)1376 533764

Teledyne Paradise Datacom LLC
328 Innovation Blvd.
State College, PA 16803, U.S.A.
Tel: +1 814 238 3450
Fax: +1 814 238 3829

Other regional support centres are listed on our web site.

Worldwide support via email is available by filling in the Technical Support Contact Form on the Support web page at http://www.paradisedata.com, which will forward your support issues to your local Teledyne Paradise Datacom Technical Support team for your geographic area.